OIPE JAP43 MAR 10 2006 PATENT & TRADEMARK OFFICE

Fig. 3

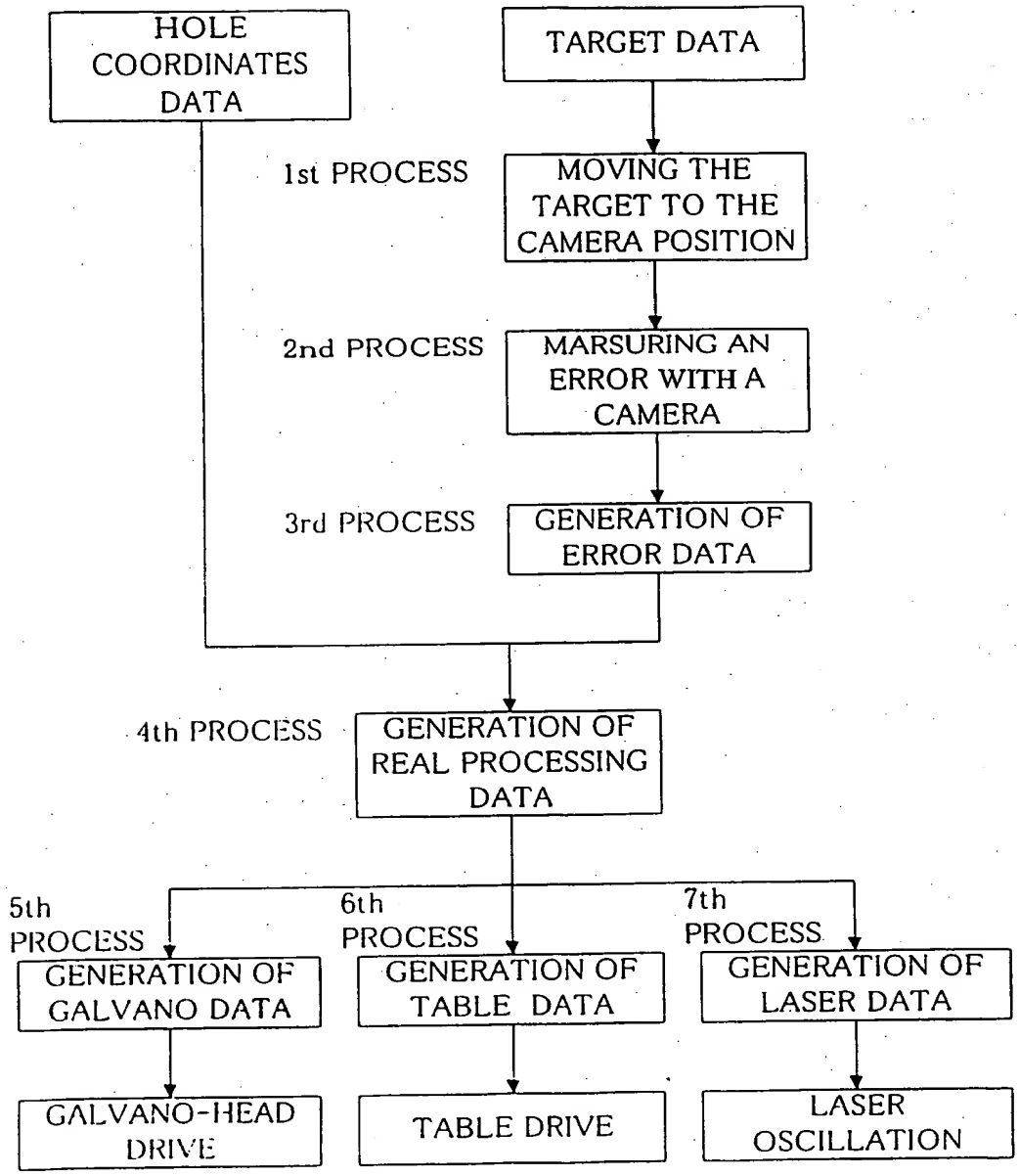

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Fig. 14

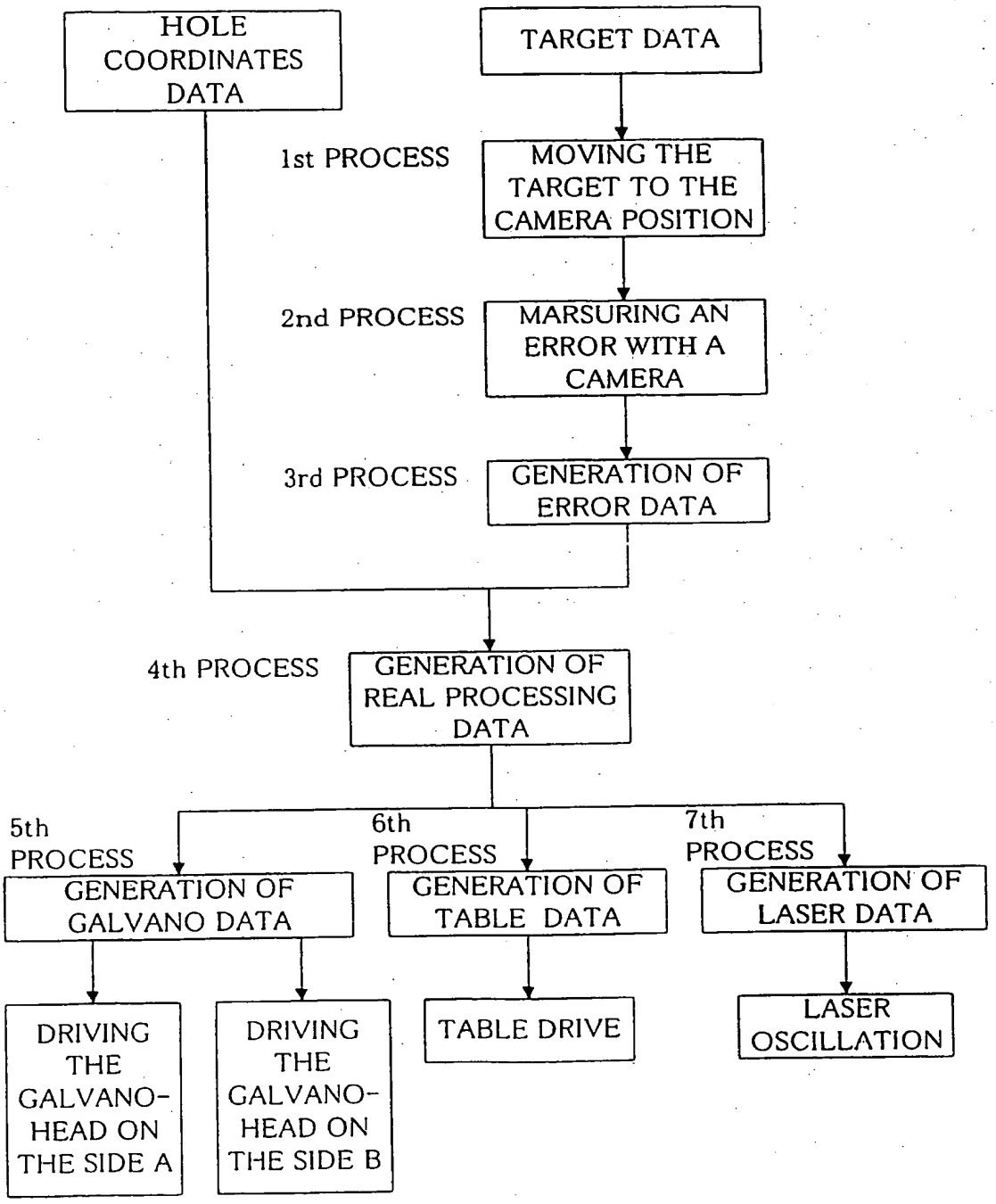
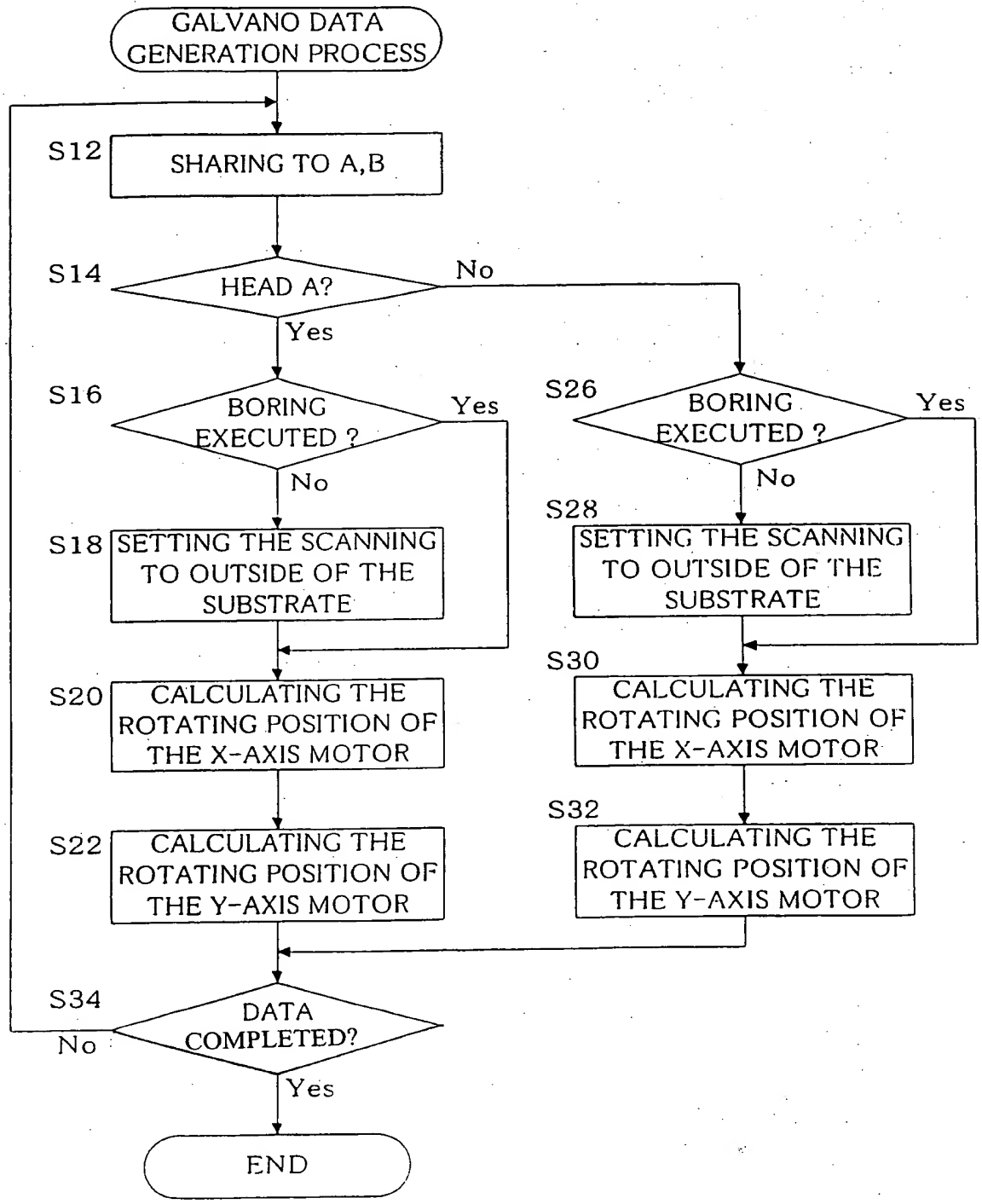

HOLE COORDINATES DATA
TARGET DATA
1st PROCESS
MOVING THE TARGET TO THE CAMERA POSITION
2nd PROCESS
MARSURING AN ERROR WITH A CAMERA
3rd PROCESS
GENERATION OF ERROR DATA
4th PROCESS
GENERATION OF REAL PROCESSING DATA
5th PROCESS
6th PROCESS
7th PROCESS
GENERATION OF GALVANO DATA
GENERATION OF TABLE DATA
GENERATION OF LASER DATA
DRIVING THE GALVANO-HEAD ON THE SIDE A
DRIVING THE GALVANO-HEAD ON THE SIDE B
TABLE DRIVE
LASER OSCILLATION

Fig. 15


GALVANO DATA GENERATION PROCESS
S12
SHARING TO A,B
S14
HEAD A?
No
Yes
S16
BORING EXECUTED ?
Yes
No
S18
SETTING THE SCANNING TO OUTSIDE OF THE SUBSTRATE
S20
CALCULATING THE ROTATING POSITION OF THE X-AXIS MOTOR
S22
CALCULATING THE ROTATING POSITION OF THE Y-AXIS MOTOR
S26
BORING EXECUTED ?
Yes
No
S28
SETTING THE SCANNING TO OUTSIDE OF THE SUBSTRATE
S30
CALCULATING THE ROTATING POSITION OF THE X-AXIS MOTOR
S32
CALCULATING THE ROTATING POSITION OF THE Y-AXIS MOTOR
S34
DATA COMPLETED?
No
Yes
END